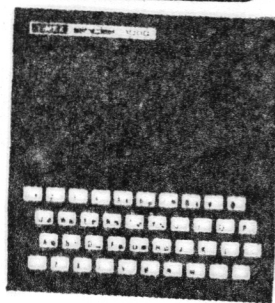
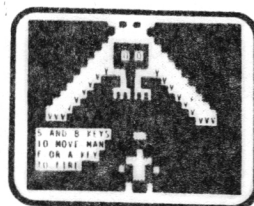


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TIMEX SOFTWARE

TIMEX sinclair



Use the POWER
within your reach!

BITS and BYTES

HOW ABOUT THAT>>>

The NEW T/S 1500 is finally arriving in local stores. However, there will be quite a few stores that were selling the T/S line who will not be selling it now. Who can blame them, with all of the broken Promises as to delivery dates and Product availability. We sure hope that things get a lot better before long. Maybe we will be able to get the new T/S 2068. WE ARE WAITING==(<>)

This month the Program column was written by ROD GOWEN. We certainly hope that these tips and Programs are of some use to our readers. As we have said before, we would be very happy to have any one line tip or short Program that may be of general interest.

The hardware review this month was submitted by DICK WAGNER. He seems to be one of our few regular contributors. We do, however, think he has some interesting things to Pass along to us.

If you have something to contribute, have a question, or wish to borrow from the group library, Please contact:

ROD GOWEN 655-7484
(LIBRARY)
or
DENNIS JURRIES 655-9670

We will be more than happy to assist if Possible.

HARDWARE REVIEW

WINKY BOARD II by DICK WAGNER

Probably most members have read of or are aware of a Passive filter device called WINKY II. It fits between the recorder and the ZX/TS AND IS SUPPOSED to clean up the recorder output for better LOADING. It does this but it also reduces the recorder output volume slightly so that marginal volume tapes may not LOAD with this device.

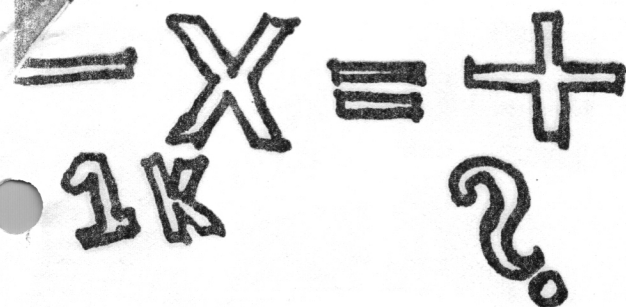
This is a neat attachment to allow the use of a second recorder to copy a Program that is being LOADED, to directly copy from one recorder to another recorder, and to SAVE on two recorders at the same time. All of this is made Possible by an impedance matching circuit for the MIC input to the second recorder.

(ED. NOTE: some of you may have seen the review of this device in the AUGUST issue of TSU. If you did not see it, they gave the WINKY II a rating of ****. That is the highest they give.)

The WINKY II is available from:
G. RUSSELL-ELECTRONICS
RD 1 BOX 539
CENTER HALL, PA 16828

Price? \$19.95+\$1 P+H ASSEMBLED

\$14.95+\$1 P+H KIT



Be sure to watch for future articles and reviews by our friend DICK WAGNER.

KEEP EM COMING, DICK>>>

<<<OOPS>>>

We will be using this column to try to correct any editorial glitches that may from time to time slip by our ever-vigilant eye. Like last month in the ZX/TS P and R column. The tip to ROUND-OFF numbers to the nearest two decimal places was incorrectly printed as:

```
LET R=INT (100*N+0.05)/100
```

It should have read:

```
LET X=INT (100*X+.5)/100
```

We certainly hope that there was no inconvenience caused by our error. SORRY/////

ZX/TS P and R

This month we have a short, if not one line, tip for all of you new Programmers out there in readerland. This is the easiest method to set up a SELF-RUNNING Program and to make sure that you do not lose any of the Program variables by accidentally RUNNING a Program. The lines are:

```
9998 SAVE "PROGRAM NAME"
9999 GOTO 100
```

In line 9999 the number after GOTO indicates the first line in the Program that will RUN the routine without erasing any of the Program variables. Use this routine at the end of any Program you may write and when it is LOADED, it will automatically start.

This month for our Program section, we thought that we would try to show some of you newer Programmers what can be accomplished by a novice hacker with only 1K or RAM to work with. These three simple math routines were the very first Programs written by yours truly right after reading the ZX81 manual. The routines were designed to help my daughters in routine MATH SKILLS. They really did help. They also show that some nice things can be accomplished with very little knowhow and/or memory.

```
5 REM "MATH DRILL M"
6 SLOW
7 PRINT "MULTIPLICATION DRILL"
8 PRINT
10 LET X=INT (RND*20)+1
20 LET Y=INT (RND*20)+1
40 PRINT AT 10,0;X;" TIMES "
;Y;"=";"ANSWER?"
70 INPUT Z
80 PRINT AT 10,15;Z;"
82 PAUSE 200
85 CLS
90 IF Z=X*Y THEN PRINT AT 5,0;
"GREAT ***** SUPER";",,,";"NEXT?"
95 IF Z=X*Y THEN GOTO 10
110 IF Z<>X*Y THEN PRINT AT 5,0;
"NOPE, SORRY,"",,,";"TRY AGAIN"
115 PRINT
120 IF Z<>X*Y THEN GOTO 40
130 CLS
```

```
5 REM "MATH DRILL A"
6 SLOW
10 PRINT "ADDITION"
30 LET X=INT (RND*500)+1
40 LET Y=INT (RND*500)+1
50 PRINT AT 10,0;X;" PLUS ";
Y;"=";"ANSWER"
70 INPUT Z
80 PRINT AT 10,15;Z;"
85 PAUSE 200
87 CLS
90 IF Z=X+Y THEN PRINT AT 5,0;
"HOORAY >>> GO ON"
110 IF Z=X+Y THEN GOTO 30
120 IF Z<>X+Y THEN PRINT AT 5,0;
"NO, NO, NINNY",,,";"TRY AGAIN"
140 IF Z<>X+Y THEN GOTO 50
```

```
5 REM "MATH DRILL S"
6 SLOW
7 PRINT "MATH DRILL 4"
10 PRINT "SUBTRACTION"
30 LET X=INT (RND*500)+1
40 LET Y=INT (RND*500)+1
45 IF X<Y THEN GOTO 30
50 PRINT AT 10,0;X;" MINUS "
;Y;"=";"ANSWER?"
70 INPUT Z
80 PRINT AT 10,17;Z;"
82 PAUSE 200
85 CLS
90 IF Z=X-Y THEN PRINT AT 5,0;
"RIGHT ON,"",,,";"GO ON TO NEXT"
110 IF Z=X-Y THEN GOTO 30
120 IF Z<>X-Y THEN PRINT AT 5,0;
"NOT SO FAST,"",,,";"DO IT OVER"
140 IF Z<>X-Y THEN GOTO 50
```




BOOKS

BOOK REVIEW

by
ROD GOWEN

THE ESSENTIAL GUIDE
TO
TIMEX/SINCLAIR
HOME COMPUTERS

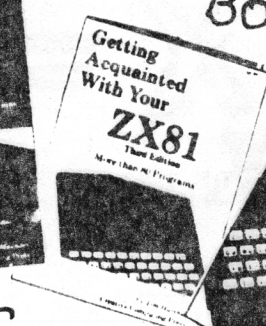
WRITTEN by:
PETER MORSE, IAN ADAMSON
BEN ANREP, BRIAN HANCOCK

The cover header says:

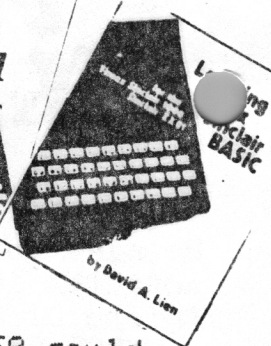
"THE ONLY BOOK YOU WILL EVER
NEED TO BECOME AN EXPERT AT THE
TIMEX/SINCLAIR 1000 AND 2000"

I am here to tell you that the
above statemet is almost an
understatement. I have quite a
few books in my library, but I
can honestly say that had this
book been in Print a year ago,
I might have saved a lot of
money and time. It has sections
on GAMES, GRAPHICS, SUBROUTINES
AND APPLICATIONS. It contains
a PROGRAM LIBRARY, INSTRUCTIONS
IN BASIC, A COMPLETE USERS
GUIDE AND A GUIDE TO COLOR
GRAPHICS AND SOUND. It even has
a very complete section on the
keyboard layout and functions
of the new T/S 2068.

After having used this SUPERB
book for only a few months, I
can safely say that I would be
lost without it. I think, NO,
I KNOW, that if I were asked to
pick the one book or guide that
I would recommend to a new T/S
owner-operator, I would have
no choice but to name this
volume as my number 1 choice.
You could almost describe it as
a complete educational course
on TIMEX computers. Anyone out
there contemplating the future



BOOKS



BOOKS

Purchase of a T/S 2068 could
not do much, if any, better
than this GEM. You need not
take my word for it though, all
you need is one glance through
it to Prove it to yourself.

This book is available for just
\$8.95 and can be Purchased from
B. DALTON BOOKSELLER.

As this is a new column this
month, we need, as with our
other columns, contributors in
order to keep the newsletter
interesting and informative to
all.

A B H
D F
C Letters E G

We hope you enjoy our little
newsletter. LET US HEAR FROM
YOU. WE WANT TO PRINT A LETTER
COLUMN, BUT THAT REQUIRES THAT
WE RECEIVE SOME LETTERS.
ADDRESS THEM TO:

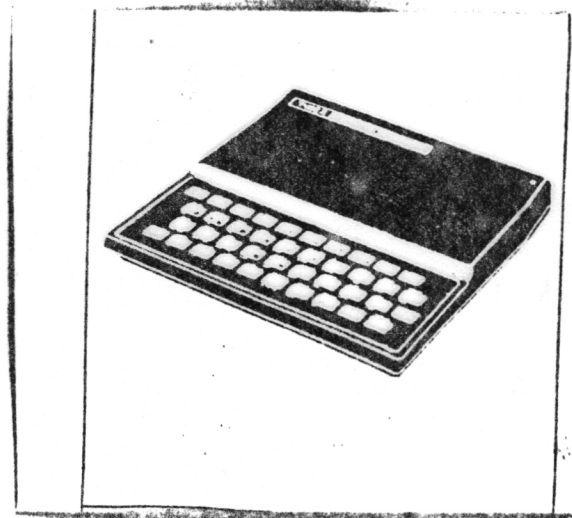
CCAT/S
1419 1/2 7th STREET
OREGON CITY, OR 97045

THANKS FOR YOUR SUPPORT---
KEEP ON
POKEing and PEEKing

Due to COMPUTER ERROR, we are
Printing a revised membership
list for you. Sorry for the
GLITCH.

REMEMBER---

Keep your list updated as we
Print names of new members.



2
BACKSTRAND, JOHN
19911 S. HENRICI 503-631-2065
OREGON CITY 1 OR. 97045

3
EVANS, BOB
2615 SE COURTNEY 19 503-659-9207
MILWAUKIE 1 OR. 97222

4
RIPPEY, QUINTEN
15661 S. TIOGA RD 503-632-4876
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5
MARKHAM, WAYNE
19751 S. MEYERS RD. 503-655-5066
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6
BATE, DAVID
21912 S FARMPOUND CT 503-632-4147
OREGON CITY 1 OR. 97045

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PAUL, DON (SEC./TREAS.)
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MILINO 1 OR. 97042

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SIMPSON, MICHAEL P.
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CANBY 1 OR. 97013

9
WAGNER, DICK
655 NW TERRITORIAL 503-266-4712
CANBY 1 OR. 97013

10
NORDENGREN, DAVID
25800 SE EAGLE CR H 503-637-6326
EAGLE CREEK, 1 OR 97022

11
MOORE, GARY
600 MAY ST. NO. 46 503-657-7295
OREGON CITY 1 OR. 97045

12
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OREGON CITY 1 OR. 97045

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GOWEN, ROD
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PORTLAND 1 OR 97206

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571 D STREET 503-657-1827
OREGON CITY, 1 OR 97045

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19526 S. LELAND RD - -
OREGON CITY, 1 OR 97045

37
JOHN WHITE
2582 LIMERICK LN - -
WEST LINN 1 OR 97068